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TITLE: PRODUCTION OF ALPHA-OLEFIN OLIGOMER  
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ABSTRACT:

PURPOSE: To efficiently obtain an  $\alpha$ -olefin oligomer improved in selectivity of trimer and tetramer of ethylene, hexene-1 and octene-1 and useful as a comonomer of linear low density PE in high selectivity and yield by using a specific catalyst composition.

CONSTITUTION: This  $\alpha$ -olefin oligomer is obtained by using a catalyst composition composed of (A) a chromium compound such as a trivalent to hexavalent chromium compound containing oxygen anion as a ligand [e.g. chromium (3)tris(2-ethylhexanoate)], (B) an electron donating agent such as an ether selected from THF, dimethoxyethane, 2,3-dihydrofuran and 3,4-dihydro-2H-pyran or amines, (C) aluminum alkoxide obtained by

reaction of  
an organoaluminum compound with an alcohol or alkoxide and further  
preferably

(D) a reducing agent such as an organoaluminum compound.

Furthermore, the  
component C is preferably used in a molar ratio of 1-10000 based on  
the  
component A.

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